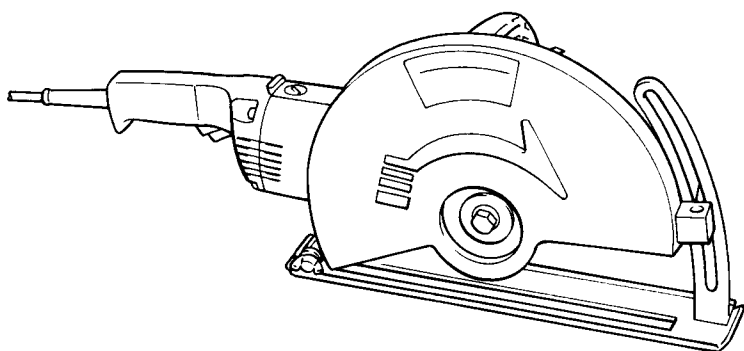


**Makita**

# Angle Cutter

**255 mm (10") MODEL 4110C**

## INSTRUCTION MANUAL

**DOUBLE  
INSULATION**

### SPECIFICATIONS

Wheel diameter	Max. cutting capacity	AMPS (115 V) AC/DC	No load speed (RPM)	Overall length	Net weight	Power supply cord
255 mm (10")	75 mm (3")	15 A	3,500	620 mm (24-3/8")	9 kg (19.8 lbs)	2.5 m (8.2 ft.)

\* Manufacturer reserves the right to change specifications without notice.

\* Note: Specifications may differ from country to country.

# **IMPORTANT SAFETY INSTRUCTIONS**

## **(For All Tools)**

**WARNING: WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, INCLUDING THE FOLLOWING:**

### **READ ALL INSTRUCTIONS.**

- 1. KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
- 2. CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain. Don't use tool in presence of flammable liquids or gases.
- 3. KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Don't let visitors contact tool or extension cord.
- 4. STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place — out of reach of children.
- 5. DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
- 6. USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended; for example, don't use circular saw for cutting tree limbs or logs.
- 7. DRESS PROPERLY.** Don't wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- 8. USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty.
- 9. DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- 10. SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- 11. DON'T OVERREACH.** Keep proper footing and balance at all times.
- 12. MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
- 13. DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.

14. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
15. **AVOID UNINTENTIONAL STARTING.** Don't carry tool with finger on switch. Be sure switch is OFF when plugging in.
16. **EXTENSION CORDS.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

**TABLE 1 MINIMUM GAGE FOR CORD SETS**

	Total Length of Cord in Feet			
	0 — 25	26 — 50	51 — 100	101 — 150
Ampere Rating More Than Not More Than	A W G			
0 — 6	18	16	16	14
6 — 10	18	16	14	12
10 — 12	16	16	14	12
12 — 16	14	12	Not Recommended	

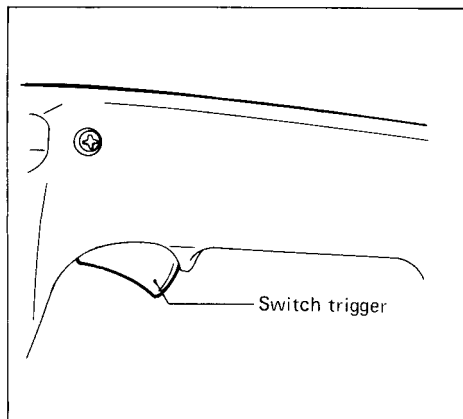
17. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
18. **STAY ALERT.** Watch what you are doing, use common sense. Don't operate tool when you are tired.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Don't use tool if switch does not turn it on and off.
20. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
21. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.
22. **POLARIZED PLUGS.** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

**VOLTAGE WARNING:** Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user — as well as damage to the tool. If in doubt, **DO NOT PLUG IN THE TOOL**. Using a power source with voltage less than the nameplate rating is harmful to the motor.

**SAVE THESE INSTRUCTIONS.**

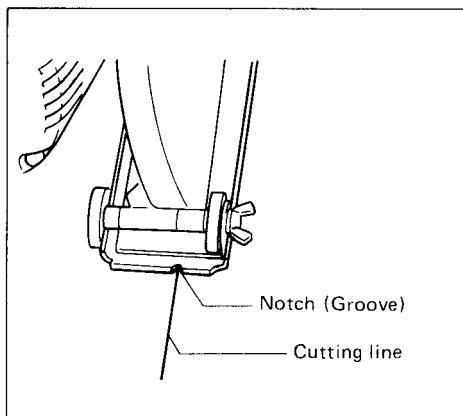
### Switch action

To start the tool, simply pull the trigger. Release the trigger to stop.



### How to cut

The cut is made by pulling the tool toward you (not by pushing away from you). Align the notch on the shaft of the safety guard with your cutting line when performing a cut.

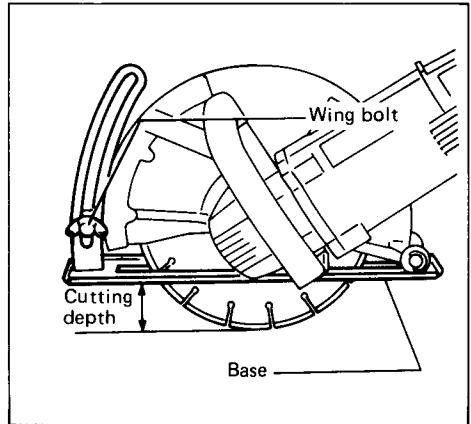


### CAUTION:

Use this tool for straight line cutting only. Cutting curves can cause stress cracks or fragmentation of the diamond wheel and abrasive cut-off wheel resulting in possible injury to persons in the vicinity.

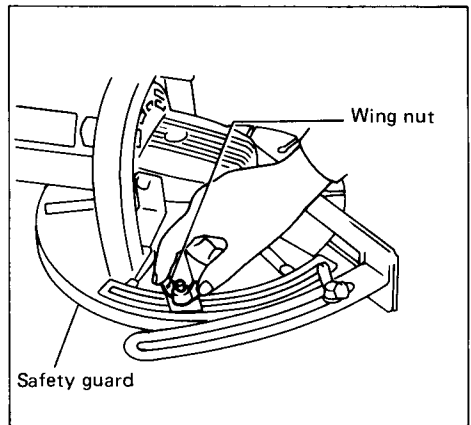
### Cutting depth adjustment

1. Loosen the wing bolt.
2. Obtain the desired cutting depth.
3. Tighten the wing bolt.



### Securing safety guard

The safety guard can be adjusted about 80 degrees, after you loosen the wing nut. Adjust to the desired angle, then secure the wing nut.

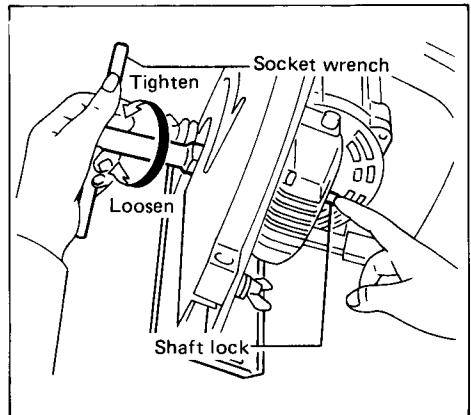


### Wheel changes

To replace the abrasive cut-off wheel, depress the shaft lock to hold the shaft stationary, then loosen the hex bolt with the socket wrench provided.

Be sure to fully tighten the hex bolt when mounting the new wheel, or operation will be dangerous.

NOTE: Hex bolt has a left-hand thread.



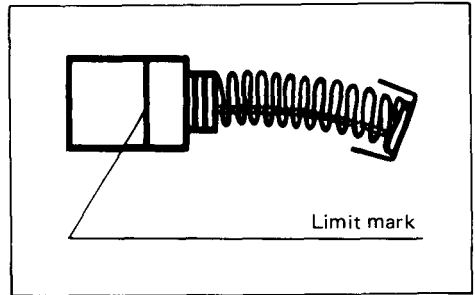
## MAINTENANCE

### CAUTION:

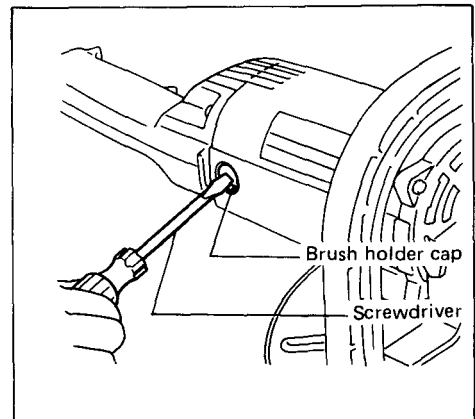
Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

### Replacing carbon brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.



Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.



To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

## ACCESSORIES

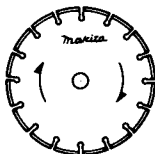
### CAUTION:

These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. The accessories or attachments should be used only in the proper and intended manner.

- **Diamond wheel 255 (Dry type)**

Part No. 792290-6

For concrete, brick, concrete block, etc.



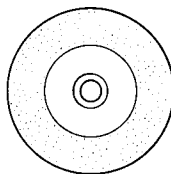
- **Abrasive cut-off wheel 305 (5 per pkg)**

Part No. 792301-7

For steel pipe, angle steel, light-weight steel, etc.

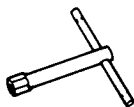
Part No. 792293-0

For light-weight concrete, brick, concrete block, slate, etc.



- **Socket wrench**

Part No. 782210-8

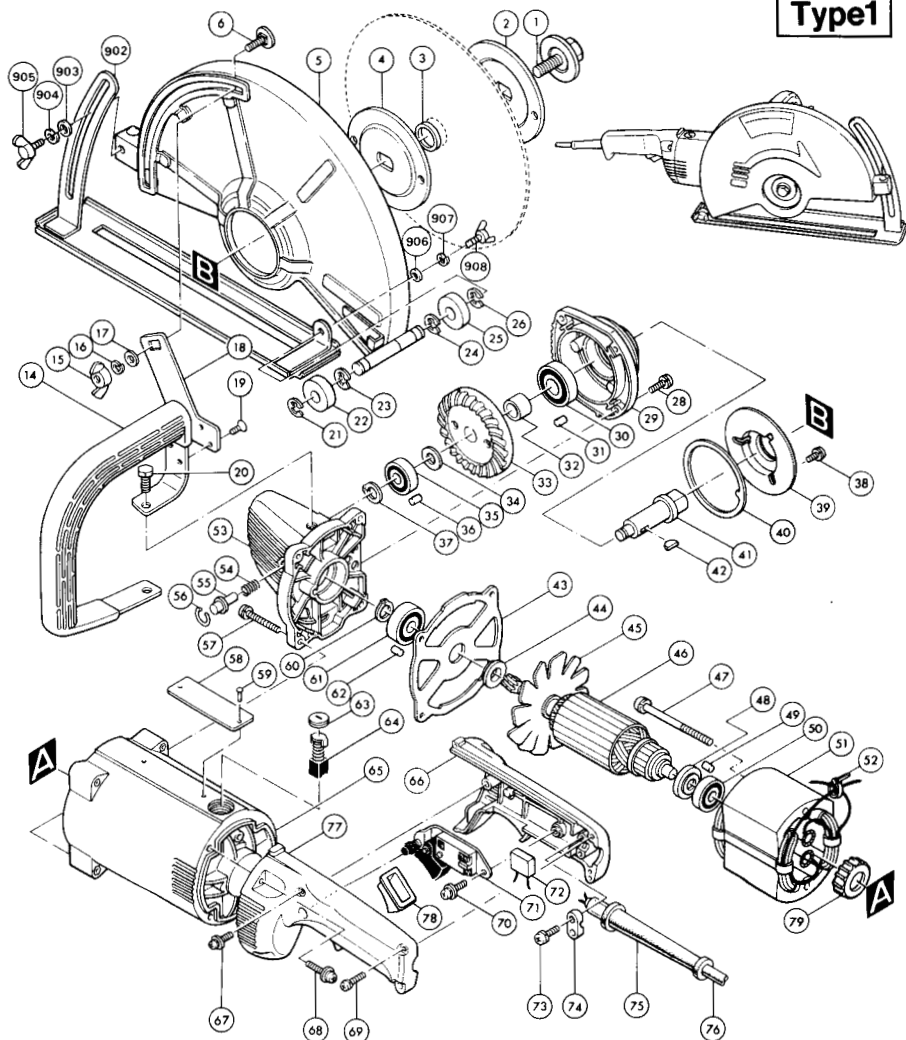


### CAUTION:

Stop cutting and dress the diamond wheel if the cutting speed slows. To dress the diamond wheel, make a few cuts on coarse materials such as concrete blocks or discarded coarse grit bench grinder wheels.



# 255 mm (10") CUTTER Model 4110C

**Type1**


Note: The switch, noise suppressor and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
MACHINE			MACHINE		
1	1	Hex. Bolt M10x25	47	2	Pan Head Screw M5x85 (With Washer)
2	1	Inner Flange 100	48	1	Insulation Washer
3	1	Ring 20	49	1	Rubber Pin 4
4	1	Inner Flange 100	50	1	Ball Bearing 6000DDW
5	1	Safety Cover	51	1	FIELD ASSEMBLY
6	1	Cap Square Neck Bolt M8x24	52	1	Band
14	1	Grip	53	1	Gear Housing
15	1	Wing Nut M8	54	1	Compression Spring 7
16	1	Spring Washer 8	55	1	Pin 6
17	1	Flat Washer 8	56	1	Ring Spring 8
18	1	Lock Plate	57	4	Pan Head Screw M5x40 (With Washer)
19	2	Countersunk Head Screw M5x8	58	1	Name Plate
20	2	Hex. Bolt M8x16	59	2	Rivet 0—5
21	1	Stop Ring E—9	60	1	Retaining Ring S—15
22	1	Ring 12	61	1	Ball Bearing 6202LLB
23	1	Stop Ring E—9	62	1	Rubber Pin 6
24	1	Stop Ring E—9	63	2	Brush Holder Cap
25	1	Ring 12	64	2	Carbon Brush
26	1	Stop Ring E—9	65	1	Motor Housing
28	4	Hex. Socket Head Bolt M5x22 (With Washer)	66	1	Handle Set (With Item 77)
29	1	Bearing Box	67	2	Pan Head Screw M4x25 (With Washer)
30	1	Ball Bearing 6203LLB	68	2	Pan Head Screw M5x28 (With Washer)
31	1	Rubber Pin 4	69	1	Pan Head Screw M4x25 (With Washer)
32	1	Sleeve 17	70	1	Pan Head Screw M4x6 (With Washer)
33	1	Spiral Bevel Gear 55	71	1	Switch
34	1	Flat Washer 10	73	1	Pan Head Screw M4x18 (With Washer)
35	1	Ball Bearing 6200LLB	74	1	Strain Relief
36	1	Rubber Pin 4	75	1	Cord Guard
37	1	Retaining Ring S—10	76	1	Cord
38	3	Pan Head Screw M5x10 (With Washer)	77	1	Handle Set (With Item 66)
39	1	Pressure Plate	78	1	Dust Cover
40	1	Plate B	79	1	Rubber Ring 26
41	1	Spindle	902	1	Base Set
42	1	Woodruff Key 4	903	1	Flat Washer 8
43	1	Baffle Plate	904	1	Spring Washer 8
44	1	Bush 15	905	1	Wing Bolt M8x15
45	1	Fan 100	906	1	Flat Washer 6
46	1	ARMATURE ASSEMBLY (With Item 44 — 46, 48 & 50)	907	1	Spring Washer 6
			908	1	Wing Bolt M6x12

Note: The switch and other part specifications may differ from country to country.

## MAKITA LIMITED ONE YEAR WARRANTY

### Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- The tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

**Makita Corporation**

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